(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
20 September 2001 (20.09.2001)

PCT

(10) International Publication Number
WO 01/68599 A3

(51) International Patent Classification[7]: B01J 19/00, C07K 1/04, B65D 83/04

(21) International Application Number: PCT/DK01/00185

(22) International Filing Date: 16 March 2001 (16.03.2001)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
PA 2000 00451 17 March 2000 (17.03.2000) DK

(71) Applicants *(for all designated States except US)*: **H. LUNDBECK A/S** [DK/DK]; Ottiliavej 9, DK-2500 Valby-Copenhagen (DK). **ANDERSEN, Kim** [DK/DK]; Ringerbakken 22, DK-2830 Virum (DK).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **RUHLAND, Thomas** [DE/DK]; Østergaards Alle 16, DK-2500 Valby (DK). **HOLM, Per** [DK/DK]; Grøndals Parkvej 54, DK-2720 Valby (DK). **SCHULTZ, Kirsten** [DK/DK]; Nørregade 25 A, Tune, DK-4000 Roskilde (DK). **EGESKOV HOLM, Jannie** [DK/DK]; Dæmningen 51, DK-Valby 2500 (DK).

(74) Common Representative: **H. LUNDBECK A/S**; Ottiliavej 9, DK-2500 Valby-Copenhagen (DK).

(81) Designated States *(national)*: AE, AG, AL, AM, AT, AT (utility model), AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, CZ (utility model), DE, DE (utility model), DK, DK (utility model), DM, DZ, EE, EE (utility model), ES, FI, FI (utility model), GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK (utility model), SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

(84) Designated States *(regional)*: ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published:
— *with international search report*

(88) Date of publication of the international search report:
13 December 2001

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 01/68599 A3

(54) Title: DOSING FORM FOR REAGENTS, USE OF SAID DOSING FORM IN ORGANIC CHEMICAL SYNTHESIS AND PRODUCTION OF SAID DOSING FORM

(57) Abstract: A dosing form for at least one solid reagent for use in conventional organic and inorganic synthesis, in parallel synthesis, and in split and mix synthesis in combinatorial chemistry is provided as compressed tablets each containing the same predetermined amount of said at least one reagent embedded in a polymer matrix comprising beads of a polymer insoluble in the solvents for the intended synthesis, which tablets are capable of disintegrating in said solvent for release of the at least one reagent and disperse the matrix as polymer beads into the solvent. The polymer beads forming the matrix and the reagents of the dosing form can easily be removed by filtration in order to separate these from a formed soluble product. In a method for producing the dosing form, beads of one or more polymers are mixed with the reagents and compressed into tablets after pre-treatment with an aprotic organic solvent.